

Abdelrahman Salah

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 9+ years specializing in Golang, NestJS, microservices, and event sourcing since 2023. Built CDC service in 6 months, improving data processing efficiency by 97% by publishing SQL Server changes to Apache Pulsar. Experienced in Agile methodologies. Proficient in Docker, Kubernetes, GitHub Actions, and AI-assisted tools with Model Context Protocol (MCP).

LATEST WORK EXPERIENCE

Awaed

Software Engineer

01/2023 - Present

Cairo, Egypt

- Engineered a Change Data Capture (CDC) service with Golang and gRPC, reducing response time by 97% within 6 months, significantly boosting system efficiency.
- Created multiple Golang microservices utilizing Apache Pulsar, Kafka, and Command and Query Responsibility Segregation (CQRS), improving system observability with OpenTelemetry and Grafana within 9 months.
- Implemented event sourcing with Golang, enhancing data integrity and system reliability, achieving more than 90% reduction in data retrieval time within 6 months.
- Applied Redis for caching and MongoDB for projections from event store DB, reducing data retrieval time by 50% within 8 months, enhancing system performance.
- Engineered a scalable API using NestJS within 3 months, enhancing the codebase's modularity and improving overall application performance by 20%.

Senior Front-End Engineer

Cairo, Egypt

- Constructed scalable web applications with Nuxt, TypeScript, and PHP Laravel, optimizing performance and storage efficiency within 6 months.
- Built an admin dashboard with shared components using Git Submodules, streamlining development processes and reducing code duplication by 30% within 6 months.
- Conducted thorough code reviews, improving team collaboration and knowledge sharing, which led to a 25% increase in project delivery speed within 4 months.

Andalusia Group for Medical Services

Senior Front-End Developer

12/2020 - 12/2022

Cairo, Egypt

- Led a team to refactor web applications with Nuxt, improving load times by 60% within 3 months and enhancing overall user experience through streamlined code.
- Enforced SEO best practices in HTML, increasing organic traffic by 22% within 3 months, enhancing site visibility and user engagement.
- Expanded responsive web applications with Tailwind CSS, reducing code duplication by 50% within 6 months while improving clarity and fostering team collaboration.
- Expanded a scalable web application using Vue.js and Node.js, enhancing user engagement by 75% within 4 months through improved performance and responsiveness.

Scripty Team

Front-End Developer

07/2018 - 11/2020

Alexandria, Egypt

- Developed custom WordPress themes using HTML, CSS, and Bootstrap, generating over \$20,000 in revenue for the company within 14 months.
- Designed dynamic web applications using React and Angular, enhancing user experience and engagement, achieving a 30% increase in user retention within 12 months.

PROJECTS

Zagtrader Integration

09/2023 - Present

Awaed

Role: Software Engineer

Scope: Designed and maintained two core services to automate real-time data synchronization between SQL Server and Apache Pulsar using Change Data Capture (CDC). Applied message subscription logic within Insight Worker services to efficiently append updates to MongoDB, enabling comprehensive data insights and traceability of message consumption.

Results: Reduced data latency from 180 minutes to 5 minutes, achieving a 97% improvement in processing speed and significantly enhancing overall system responsiveness.

SSO Services

01/2023 - Present

Awaed

Role: Software Engineer

Scope: Built and maintained a centralized authentication system using PHP Laravel and Apache Kafka to enable secure, real-time user session management and cross-application single sign-on. Incorporated token-based authentication and role-based access control for improved security and scalability.

Results: Enhanced login performance and reduced authentication-related errors by over 60% across connected services.

CMA Service

09/2025 - 11/2025

Awaed

Role: Software Engineer

Scope: Created a high-performance backend service in Golang leveraging the AWS S3 SDK for secure file storage and retrieval. Integrated RESTful APIs for seamless data exchange, implemented monitoring using Jaeger and Grafana, and optimized concurrent processing for large data workloads.

Results: Increased file processing throughput and reduced cloud storage latency, improving overall system scalability and reliability.

Orchestrator Service

06/2023 - 08/2023

Awaed

Role: Software Engineer

Scope: Developed a scalable backend service using Node.js and NestJS, integrating MongoDB and MySQL for data persistence, and Redis with Bullboard for job queue monitoring and performance optimization.

Results: Enhanced system reliability and deployment efficiency.

Admin Portal and IPO Dashboards

01/2023 - 04/2023

Awaed

Role: Senior Frontend Engineer

Scope: Enhanced and upheld multiple admin and analytics dashboards using Vue.js, Nuxt.js, React, Next.js, and PHP Laravel for backend integration. Enforced responsive UI components, optimized API interactions, and fine-tuned data visualization for real-time IPO tracking and management.

Results: Boosted dashboard load times by 40% and boosted user engagement and internal productivity through a cleaner, faster, and more intuitive interface.

EDUCATION

Bachelor's Degree in Business Administration and Management

Alexandria University

01/2009 - 12/2015

SKILLS

Golang, NestJS, TypeScript, Laravel, Microservices, Event Sourcing, gRPC, CQRS, SQL Server, MySQL, MongoDB, Redis, OpenTelemetry, Grafana, Pulsar, Kafka, CI/DC, GitHub Actions, Jenkins, Vue.js, Nuxt